TRIGONOMETRÍA

CICLO REPASO UNI

ACADEMIA CÉSAR VALLEJO

Funciones trigonométricas directas

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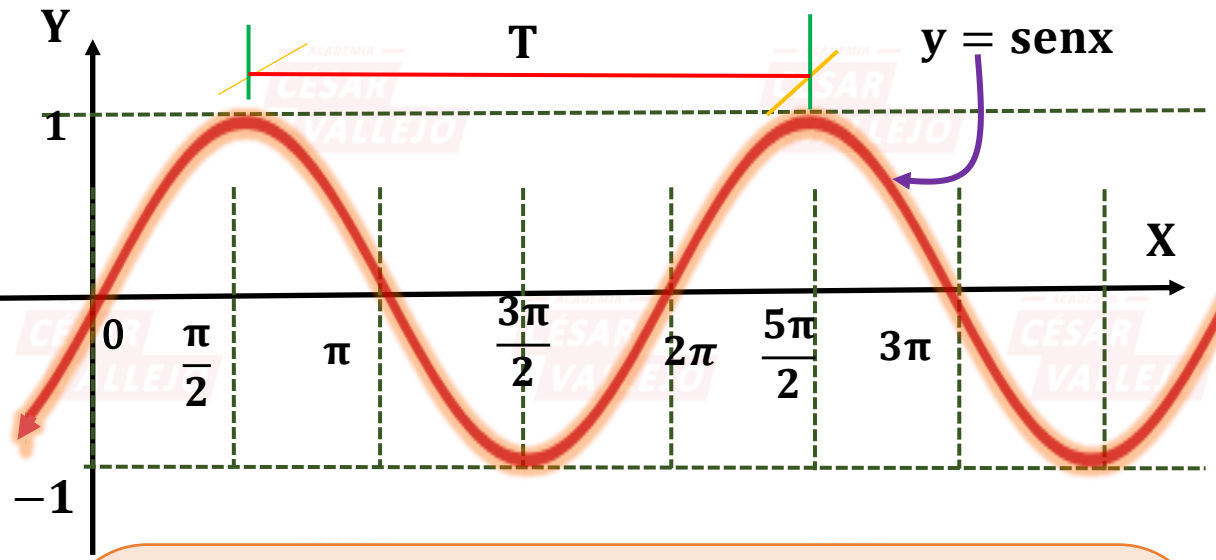
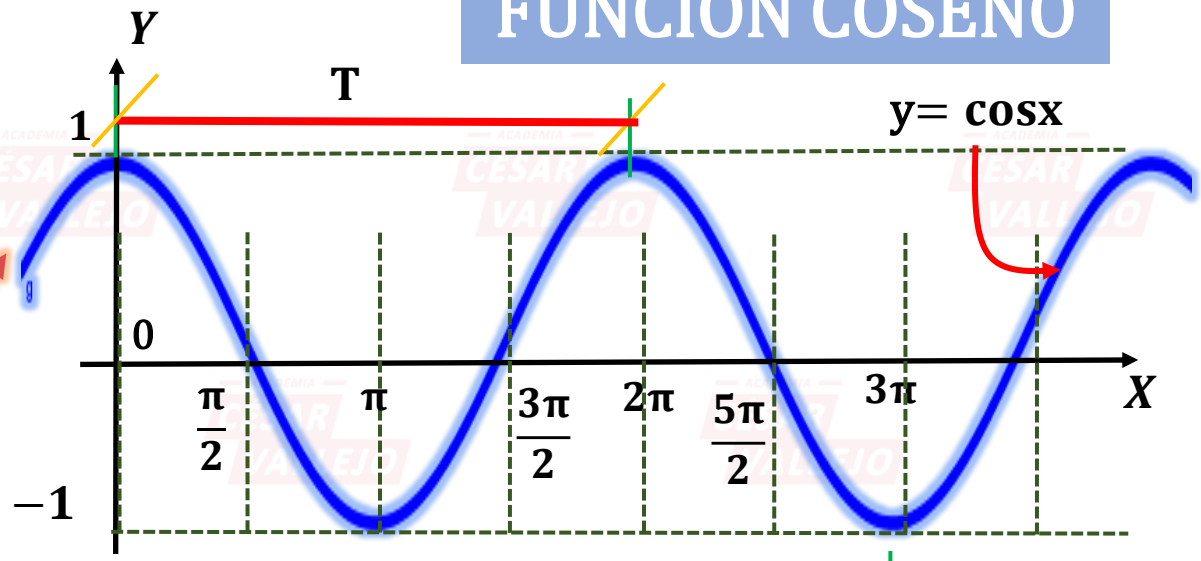
FUNCIÓN SENO



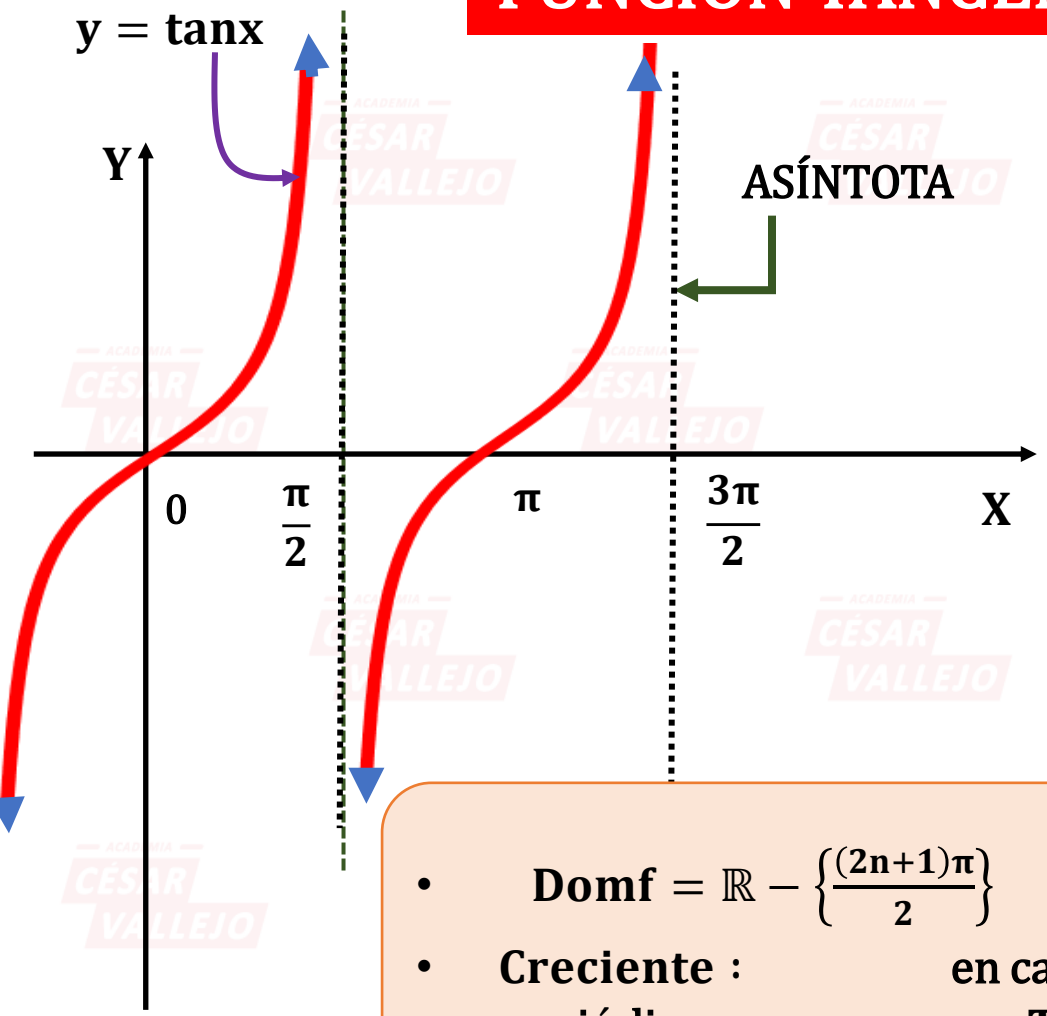
- Domf $= \mathbb{R}$; Ranf $= [-1; 1]$
- función impar : $\text{sen}(-x) = -\text{sen}x$
- Creciente : IQ y IVQ
- Decreciente : IIQ y IIIQ
- periódica : $T = 2\pi$

FUNCIÓN COSENO



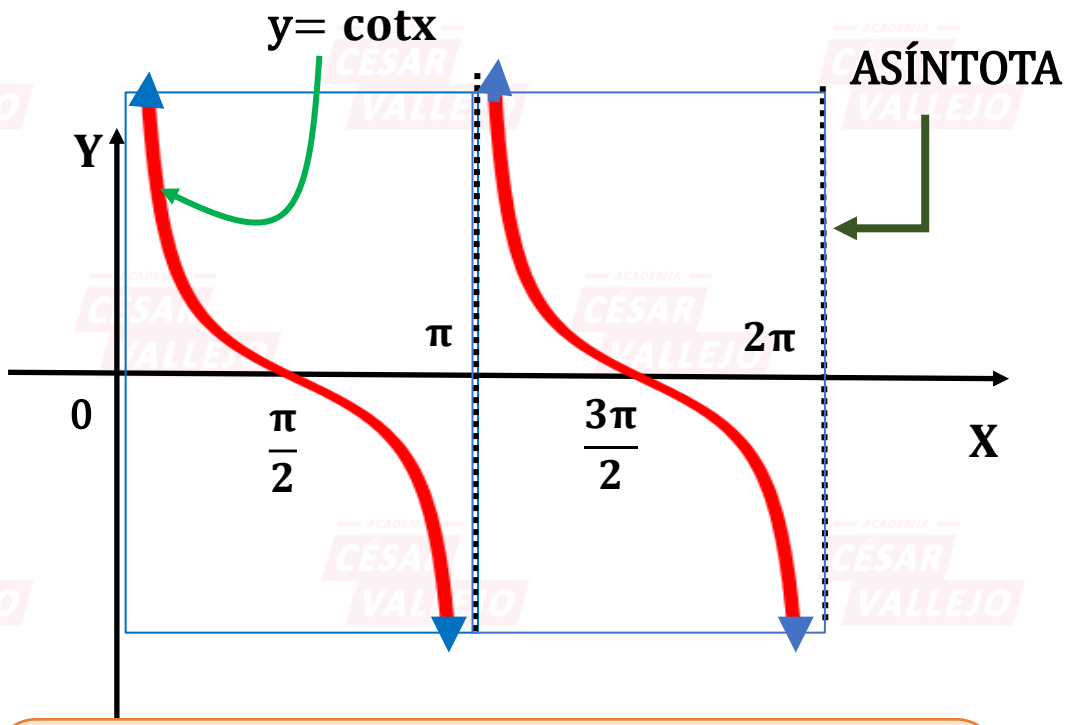
- Domf $= \mathbb{R}$; Ranf $= [-1; 1]$
- función par : $\cos(-x) = \cos x$
- Creciente : IIIQ y IVQ
- Decreciente : IQ y IIQ
- periódica : $T = 2\pi$

FUNCIÓN TANGENTE



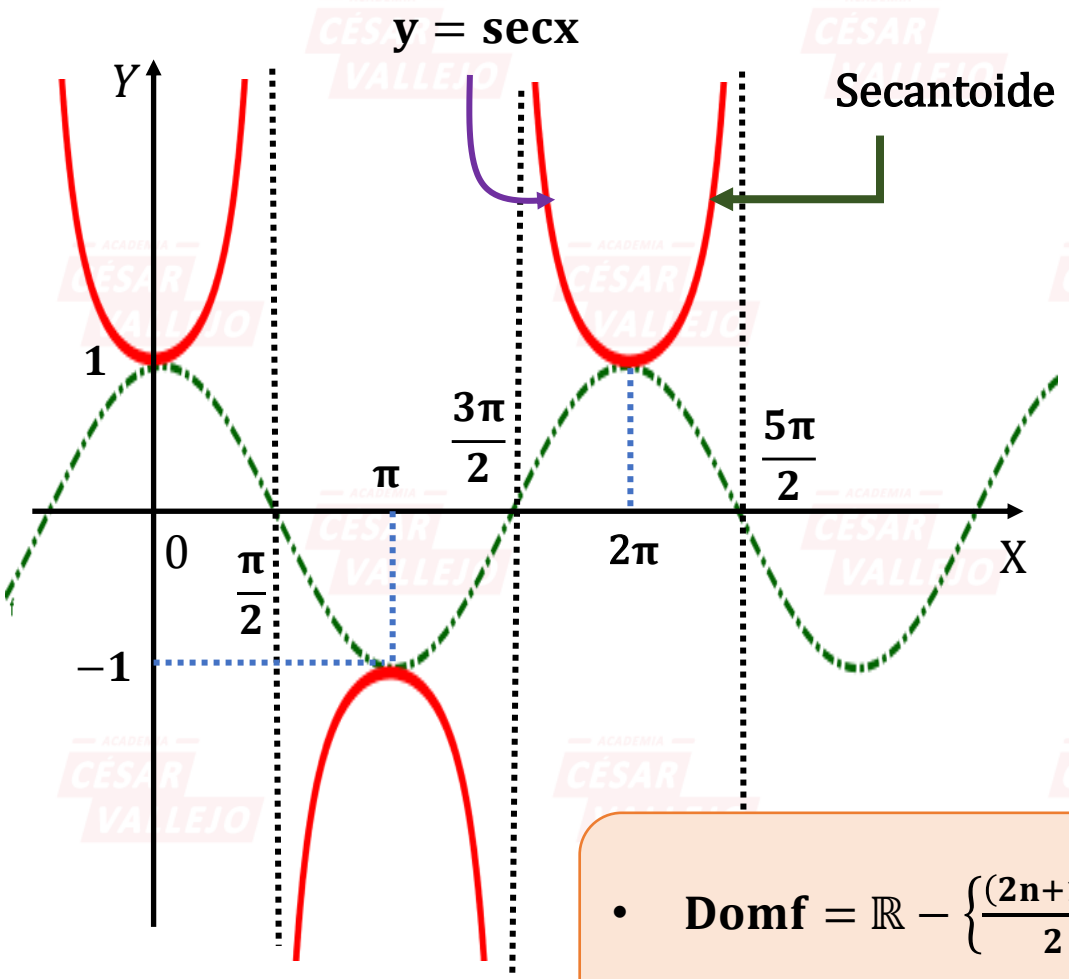
- $\text{Domf} = \mathbb{R} - \left\{\frac{(2n+1)\pi}{2}\right\}$ $\quad \text{Ranf} = \mathbb{R}$
- Creciente : en cada cuadrante
- periódica : $T = \pi$

FUNCIÓN COTANGENTE



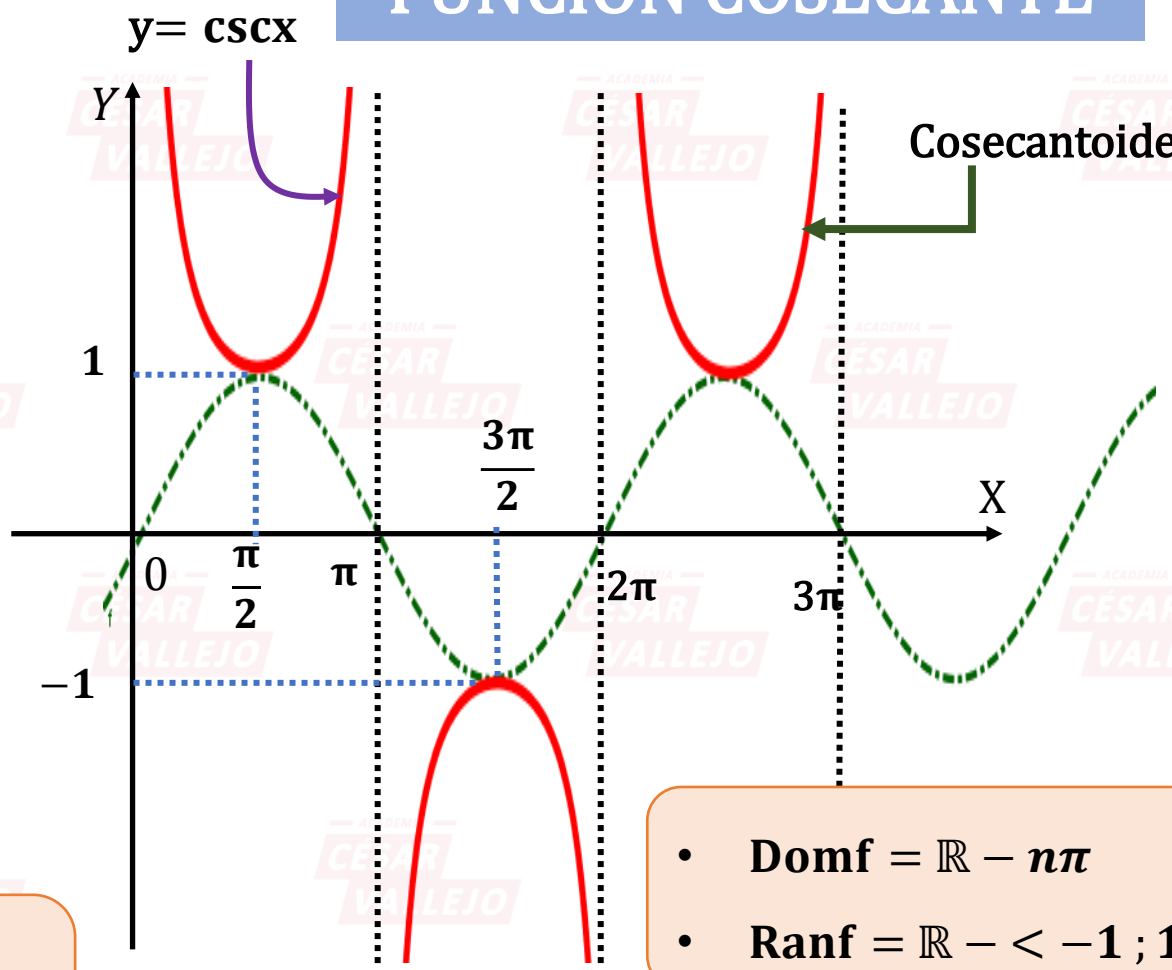
- $\text{Domf} = \mathbb{R} - \{n\pi\}$ $\quad \text{Ranf} = \mathbb{R}$
- decreciente : en cada cuadrante
- periódica : $T = \pi$

FUNCIÓN SECANTE



- $\text{Domf} = \mathbb{R} - \left\{\frac{(2n+1)\pi}{2}\right\}$
- $\text{Ranf} = \mathbb{R} - < -1 ; 1 >$

FUNCIÓN COSECANTE



- $\text{Domf} = \mathbb{R} - n\pi$
- $\text{Ranf} = \mathbb{R} - < -1 ; 1 >$

60 Años

¡Gracias!